Index of Claims

| App | lication | /Control | l No |
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10/765,149 Examiner

Applicant(s)/Patent under Reexamination

CAVALCANTI ET AL.

Art Unit

Leslie R. Deak

3761

X Rejected
= Allowed

| ı | (Through numeral)<br>Cancelled |  |  |  |  |  |  |
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| + | Restricted                     |  |  |  |  |  |  |

| N | Non-Elected  |
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| _ | Interference |

| A | Appeal   |
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| Cla      |                | _       |  |              | Date         | <u> </u>   |  |              | $\Box$       |                 |
| Final    | Original       | 4/12/06 | 90/2/6   |              |              |  |  |              |              |                 |
|          | 1              | Х       |  |              |              |  |  |              |              |                 |
|          | 2              | х       |  |              |              |  |  |              |              |                 |
|          | 3              | Х       |  |              |              |  |  |              |              |                 |
|          | 4              | X       |  |              |              |  |  |              |              |                 |
|          | 5              | Х       |  | L            | <u> </u>     |  |  |              |              |                 |
|          | 6              | Х       |  | <u> </u>     |              |  | _  |              |              |                 |
|          | 7              | Х       |  | _            | _            | _  |  | _            |              | Щ               |
|          | 8              | Х       |  | <u> </u>     | $\vdash$     | _  | _  | _            | $\vdash$     | $\dashv$        |
|          | 9              | X<br>O  | _  | _            | <u> </u>     | _  | _  |              | _            | -               |
| 1        | 10             | -       | =  | <del> </del> | _            | _  | _  | _            | -            |                 |
| 2        | 11<br>12       | 0       | =  | ├-           | $\vdash$     | $\vdash$   |  | ⊢            | $\vdash$     | $\vdash$        |
| 5        | 13             | 0       | <del>ا</del>                                     | $\vdash$     | $\vdash$     | <u> </u>   | $\vdash$   | $\vdash$     | $\vdash$     | H               |
| 5        | 14             | 0       | <del>ا</del>                                     | ⊢            | ⊢            | H  |  | $\vdash$     | $\vdash$     | Н               |
|          | 13<br>14<br>15 | 0       | 늘  | -            | ┢            | $\vdash$   | -  | 1            | $\vdash$     | $\vdash$        |
| 7        | 16             | 0       | =  | ┢┈           | $\vdash$     | $\vdash$   | $\vdash$   | $\vdash$     | _            | H               |
| <u> </u> | 17             | X       | <del>                                     </del> |              | $\vdash$     |  | $\vdash$   | $\vdash$     |              | Н               |
| 9        | 18             | 0       | =  | _            | $\vdash$     |  | ┢  | -            |              | П               |
|          | 18<br>19       | X       | $\vdash$   |              |              | _  | $\vdash$   | $\vdash$     |              |                 |
|          | 20             | х       | $\vdash$   | $\vdash$     |              |  |  |              |              |                 |
| 10       | 21             | 0       | =  |              |              |  |  |              | Г            |                 |
|          | 21<br>22       | Х       |  |              |              |  |  |              |              |                 |
|          | 23             | X       |  |              |              |  |  |              |              |                 |
|          | 24<br>25       | X       |  |              |              |  |  | _            | <u> </u>     |                 |
| 11       | 25             | 0       | =  |              |              | _  |  | _            | _            | Ш               |
|          | 26             | Х       | _  |              |              | _  | _  | _            |              |                 |
|          | 27             | X       | ļ.   |              |              |  |  |              | <u> </u>     | Ш               |
| 12<br>13 | 28             | 0       | =  | _            |              | _  | ├-   | <u> </u>     | <u> </u>     | Ш               |
| 13       | 29             | 0       | =  | _            | _            |  | <u> </u>   |              | -            | Н               |
| 14<br>15 | 30<br>31       | 0       | =  | _            | _            | -  | -  | ├            | -            | $\vdash$        |
| 13       | 32             | X       | 宀  | $\vdash$     | $\vdash$     | $\vdash$   | <del>                                     </del> | ├            | -            | $\vdash \vdash$ |
| 16       | 33             | 6       | -  | $\vdash$     | $\vdash$     | $\vdash$   | $\vdash$   | -            | -            | H               |
| '0       | 34             | X       | ┝  | ┢            | $\vdash$     | $\vdash$   | -  | $\vdash$     |              | $\vdash$        |
| $\vdash$ | 35             | x       | $\vdash$   | H            | $\vdash$     | $\vdash$   | $\vdash$   | $\vdash$     | -            | $\vdash$        |
|          | 36             | x       | $\vdash$   | $\vdash$     | 一            | <del>                                     </del> | $\vdash$   | 一            | $\vdash$     | $\vdash$        |
| 17       | 37             | 0       | =  | Г            |              | Г  |  | Г            |              | П               |
| 18       | 38             | 0       | =  |              |              |  |  |              |              |                 |
| 19       | 39             | 0       | =  |              |              |  |  |              |              |                 |
| 20       | 40             | 0       | Ξ  |              |              |  |  |              |              |                 |
|          | 41             | Х       | $\Box$   | Ĺ            |              | $\Box$   | 匚  | 匚            |              | Ш               |
|          | 42             | X       | _  | _            | _            | <u>L</u>   |  | <u> </u>     | _            | Ш               |
|          | 43             | X       | _  | _            | <u> </u>     |  | <u> </u>   | <u> </u>     | <u> </u>     | Ш               |
| 21       | 44             | 0       | =  | _            | <del> </del> | $\vdash$   |  | <u> </u>     | <u> </u>     | Ш               |
| 22       | 45             | 0       | =  | ⊢            | <u> </u>     | ┞  | _  | <u> </u>     | <u> </u>     | Н               |
| 8        | 46             | 0       | =  | <del> </del> | $\vdash$     | $\vdash$   | _  | <u> </u>     |              | Н               |
| 23       | 47             | X       | =  | ├            | $\vdash$     | $\vdash$   | <del> </del>                                     | <del> </del> | <del> </del> | $\vdash$        |
| -        | 48<br>49       | X       | $\vdash$   | $\vdash$     | -            | $\vdash$   | ⊢  | -            | <u> </u>     | Н               |
| <u> </u> | 50             | X       | ┝  | -            | -            | $\vdash$   | $\vdash$   | -            | $\vdash$     | Н               |
| ш        | 100            | ഥ       | Ц,   |              | 1            |  |  | L            |              | لــــا          |

| Cla      | nim            | Date    |  |          |     |          |           |              |          |          |
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|          |                | _       |  |          |     |          |           |              |          |          |
| Final    | Original       | 4/12/06 |  |          |     |          |           |              |          |          |
|          | 51             | Ν       |  |          |     |          |           |              |          |          |
|          | 52             |         |  |          |     |          |           |              |          |          |
|          | 53             |         |  |          |     |          |           |              |          |          |
|          | 54             | N       |  |          |     |          |           |              |          |          |
|          | 55             |         |  |          |     |          |           |              |          |          |
|          | 56             |         |  |          |     |          |           |              |          |          |
|          | 57             | N       |  |          |     | _        |           |              |          |          |
|          | 58             |         |  |          |     |          |           |              |          |          |
|          | 59             |         | _  | <u> </u> |     |          |           |              |          | _        |
|          | 60             | N       | _  |          |     |          |           |              |          |          |
| <u> </u> | 61             |         | _  | _        | _   | -        |           | _            | _        | _        |
|          | 62             |         |  | -        |     |          |           |              |          |          |
|          | 63             |         |  | H        | _   |          |           |              | _        | _        |
| -        | 64<br>65       |         |  |          |     | -        |           |              |          | -        |
| $\vdash$ | 66             |         | -  | ┝        | _   |          | _         | H            | $\vdash$ | ┝        |
| -        | 67             |         | -  | <u> </u> |     |          |           |              | -        | _        |
| -        | 68             |         | ┢  | -        | -   |          |           | Н            |          |          |
|          | 69             | N       | ┢─   | $\vdash$ | _   | -        | _         | $\vdash$     |          | -        |
| -        | 70             | N       | $\vdash$   |          |     | _        | _         | $\vdash$     |          | _        |
| -        |                | N       | $\vdash$   |          |     |          | -         | Н            | -        |          |
|          | 72             | N       | <del>                                     </del> |          |     |          |           |              |          |          |
|          | 71<br>72<br>73 | N       |  |          |     |          | -         |              |          |          |
|          | 74             | N       |  |          | _   | _        |           |              |          | _        |
|          | 75             | N       |  |          |     | _        |           |              |          |          |
|          | 76             | N       |  |          |     |          |           |              |          |          |
|          | 77             | N       |  |          |     |          |           |              |          |          |
|          | 78             | N       |  |          |     |          |           |              |          |          |
|          | 79             | Z       |  |          |     |          |           |              |          |          |
|          | 80             | N       | _  |          |     |          |           |              |          |          |
|          | 81             | N       | _  |          |     |          |           | $oxed{oxed}$ |          | _        |
|          | 82             | N       | <u> </u>   |          | L., |          |           |              |          |          |
|          | 83             | N       | <u> </u>   | _        |     |          |           |              |          | _        |
|          | 84             | N       | <u> </u>   |          |     | <u> </u> | $\dot{-}$ | _            | _        | _        |
| -        | 85             | N       | ⊢  | <u> </u> |     |          |           |              |          | _        |
|          | 86<br>87       | N<br>N  | ⊢  | _        | _   |          |           |              | _        | _        |
|          | 88             | N       | ⊢  | $\vdash$ |     | _        | -         | -            | _        | _        |
|          | 89             | N       | ⊢  | $\vdash$ |     |          | _         |              |          | ┢        |
|          | 90             | N       | ┢─   | -        |     | _        | -         | ┝╾           | -        | $\vdash$ |
| -        | 91             | Z       | -  | ┢        |     | _        | _         | $\vdash$     | $\vdash$ | $\vdash$ |
| <u> </u> | 92             | N       | -  | ┢        | _   |          |           | ┢            | ┢        | $\vdash$ |
|          | 93             | N       | H  | $\vdash$ |     |          | -         | H            | $\vdash$ | -        |
|          | 94             | N       |  | $\vdash$ |     |          | Ι         | $\vdash$     | $\vdash$ | $\vdash$ |
|          | 95             | X       | $\vdash$   | T        | Н   | П        |           | $\vdash$     | $\vdash$ | Г        |
|          | 96             | х       |  | $\vdash$ |     |          |           |              |          |          |
| 24       | 97             | 0       | =  | Г        |     |          |           |              | Γ        |          |
|          | 98             | х       |  |          |     |          |           |              |          |          |
|          | 99             |         |  |          |     |          |           |              |          |          |
|          | 100            |         |  |          |     |          |           |              |          |          |

| Total   | Claim |          |  |                |              | (        | Date     | •            |              |  |              |
|---|-------|----------|--|----------------|--------------|----------|----------|--------------|--------------|--|--------------|
| 103   104   105   106   107   108   109   110   111   112   113   114   115   116   117   118   119   120   121   122   123   124   125   126   127   128   129   130   131   132   133   134   135   136   137   138   139   140   141   142   143   144   145   146   147   148   149 |       | Original |  |                |              |          |          |              |              |  |              |
| 103   104   105   106   107   108   109   110   111   112   113   114   115   116   117   118   119   120   121   122   123   124   125   126   127   128   129   130   131   132   133   134   135   136   137   138   139   140   141   142   143   144   145   146   147   148   149 |       | 101      |  |                | _            |          |          |              | _            |  |              |
| 103   104   105   106   107   108   109   110   111   112   113   114   115   116   117   118   119   120   121   122   123   124   125   126   127   128   129   130   131   132   133   134   135   136   137   138   139   140   141   142   143   144   145   146   147   148   149 |       | 102      |  |                |              |          |          |              |              |  |              |
| 106   107   108   109   110   111   112   113   114   115   116   117   118   119   120   121   122   123   124   125   126   127   128   129   130   131   132   133   134   135   136   137   138   139   140   141   142   143   144   145   146   147   148   149   148   149   148   149   148   149   148   149   148   149   148   149   148   149   148   149   148   149   148   149   140   141   142   143   144   145   146   147   148   149 |       | 103      |  |                |              |          |          |              |              |  |              |
| 106   107   108   109   110   111   112   113   114   115   116   117   118   119   120   121   122   123   124   125   126   127   128   129   130   131   132   133   134   135   136   137   138   139   140   141   142   143   144   145   146   147   148   149   148   149   148   149   148   149   148   149   148   149   148   149   148   149   148   149   148   149   148   149   140   141   142   143   144   145   146   147   148   149 |       | 104      |  |                |              | L        |          |              |              |  | Ш            |
| 107         108         109         110         111         112         113         114         115         116         117         118         119         120         121         122         123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143         144         145         146         147         148         149   |       | 105      |  |                |              |          |          |              |              |  | Ш            |
| 109   |       | 106      | _  |                | _            | _        | _        |              |              |  |              |
| 109   |       | 107      |  |                |              | _        |          |              |              |  |              |
| 110         111         112         113         114         115         116         117         118         119         120         121         122         123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143         144         145         146         147         148         149   |       | 108      |  |                |              | <u> </u> |          | _            | _            | _  | -            |
| 111       112         113       114         115       116         117       118         119       120         121       122         123       124         125       126         127       128         129       130         131       132         133       134         135       136         137       138         139       140         141       142         143       144         145       146         147       148         149       149   |       | 1109     |  | Н              | <u> </u>     | _        | -        |              | _            | -  | -            |
| 112         113         114         115         116         117         118         119         120         121         122         123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143         144         145         146         147         148         149   |       | 111      |  |                | $\vdash$     | $\vdash$ | H        |              |              | $\vdash$   | $\vdash$     |
| 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149   |       | 112      | -  | -              |              | $\vdash$ | H        |              | -            | H  | H            |
| 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149   |       | 113      |  | -              | <u> </u>     | $\vdash$ | $\vdash$ | $\vdash$     | _            |  | H            |
| 115         116         117         118         119         120         121         122         123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143         144         145         146         147         148         149   |       | 114      | Н  | $\vdash$       | $\vdash$     | Н        | Н        |              | _            | <del>                                     </del> | Н            |
| 116         117         118         119         120         121         122         123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143         144         145         146         147         148         149   |       | 115      | ┪  |                | Т            | Т        |          | Г            | Т            | Г  | М            |
| 117         118         119         120         121         122         123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143         144         145         146         147         148         149   |       | 116      | Г  |                | Г            | Г        | Г        |              |              |  | П            |
| 118         119         120         121         122         123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143         144         145         146         147         148         149   |       | 117      |  |                |              |          |          |              |              |  |              |
| 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 1445 144 145 146 147 148 149  |       | 118      |  |                |              |          |          |              |              |  |              |
| 121   |       | 119      |  |                |              |          |          |              |              |  |              |
| 123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143         144         145         146         147         148         149   |       | 120      |  |                |              |          |          |              |              |  |              |
| 123         124         125         126         127         128         129         130         131         132         133         134         135         136         137         138         139         140         141         142         143         144         145         146         147         148         149   |       | 121      |  |                |              |          |          |              |              | <u> </u>   |              |
| 125<br>126<br>127<br>128<br>129<br>130<br>131<br>132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148<br>149   |       | 122      | L_   |                | _            | _        | <u> </u> |              |              | _  |              |
| 125<br>126<br>127<br>128<br>129<br>130<br>131<br>132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148<br>149   |       | 123      |  |                |              |          |          | _            |              | _  |              |
| 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149   |       | 124      | L  |                | _            | _        | _        | _            | _            | _  | Ш            |
| 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149   |       | 125      |  | _              |              | <u> </u> | _        | _            |              | <u> </u>   | _            |
| 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149   |       | 126      | _  | _              |              | _        | _        | <u> </u>     |              | ┞  | Н            |
| 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149   |       | 127      |  | $\vdash$       |              | -        |          | _            | _            | <u> </u>   | Н            |
| 132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148<br>149  |       | 128      | _  | $\vdash$       | _            | $\vdash$ | _        | <u> </u>     |              | ⊢  | Н            |
| 132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148<br>149  |       | 129      | -  | $\vdash$       | _            | -        | ├        | ┝            |              | ⊢  | Н            |
| 132<br>133<br>134<br>135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148<br>149  |       | 130      | ⊢  | -              |              | -        |          | -            | _            | ┢  | Н            |
| 134   |       | 132      | ┢  |                |              | -        | H        |              | _            | $\vdash$   | Н            |
| 134   |       | 133      | -  | $\vdash$       | _            | -        | $\vdash$ | -            | _            | $\vdash$   | Н            |
| 135<br>136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148<br>149   |       | 134      | <del>                                     </del> |                | $\vdash$     | $\vdash$ | $\vdash$ | $\vdash$     | <del> </del> | $\vdash$   | $\vdash$     |
| 136<br>137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148   |       | 135      | _  |                | $\vdash$     | H        |          | -            |              | $\vdash$   | Н            |
| 137<br>138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148  |       | 136      |  |                | $\vdash$     |          | $\vdash$ | <u> </u>     | Т            |  |              |
| 138<br>139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148<br>149  |       | 137      |  |                |              |          |          |              |              |  |              |
| 139<br>140<br>141<br>142<br>143<br>144<br>145<br>146<br>147<br>148<br>149   |       | 138      |  |                |              |          |          |              |              |  |              |
| 141   |       | 139      |  |                |              |          |          |              |              |  |              |
| 142<br>143<br>144<br>145<br>146<br>147<br>148   |       | 140      |  |                |              | $\Box$   |          |              |              |  |              |
| 143   |       | 141      | <u> </u>   | <u> </u>       | _            | _        | <u> </u> | L            | _            |  | $oxed{oxed}$ |
| 144   |       | 142      | _  | <u> </u>       | <u></u>      | <u> </u> | <u> </u> | ╙            | L            | _  | _            |
| 145   |       |          | <u> </u>   | ┞              | _            | $\vdash$ | <u> </u> | L            | oxdot        | <u> </u>   |              |
| 146   |       |          |  |                | <u> </u>     | ├-       | <u> </u> |              | <u> </u>     | -  | <u> </u>     |
| 147 148 149 149 149 149 149 149 149 149 149 149   |       |          | <del> </del>                                     | ├              | -            | ⊢        | ⊢        | <del> </del> | <u> </u>     | <u> </u>   |              |
| 148   |       |          | -  | <del> </del> — | <del> </del> | <u> </u> | ├-       | ├-           | $\vdash$     | $\vdash$   | <del> </del> |
| 149   |       |          | <del> </del>                                     | ├              | -            | -        | -        | ⊢            | $\vdash$     | -  | -            |
|   |       |          | $\vdash$   | $\vdash$       | $\vdash$     | $\vdash$ | -        | $\vdash$     | -            | $\vdash$   |              |
|   |       |          | $\vdash$   | $\vdash$       | $\vdash$     | $\vdash$ | $\vdash$ | -            | -            | $\vdash$   | -            |
|   |       | 130      | Щ  | Щ              | <u> </u>     |          | Щ        | <u> </u>     | <u> </u>     | <u> </u>   | L            |